INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
We make Indiana a cleaner, healthier place to live.

Frank O'Bannon
Governor

Lori F. Kaplan
Commissioner

100 North Senate Avenue
P. O. Box 6015
Indianapolis, Indiana 46206-6015
(317) 232-8603
(800) 451-6027
www.IN.gov/idem

MINOR SOURCE OPERATING PERMIT
OFFICE OF AIR QUALITY

Buckeye Pipe Line Company, L.P.
4527 N. Meridian Road
Huntington, IN 46750

(herein known as the Permittee) is hereby authorized to operate subject to the conditions contained herein, the emission units described in Section A (Source Summary) of this permit.

This permit is issued to the above mentioned company under the provisions of 326 IAC 2-1.1, 326 IAC 2-6.1 and 40 CFR 52.780, with conditions listed on the attached pages.

Operation Permit No.: MSOP 069-14426-00003	
Issued by:Original signed by Paul Dubenetzky Paul Dubenetzky, Branch Chief Office of Air Quality	Issuance Date: January 16, 2003 Expiration Date: January 16, 2008

TABLE OF CONTENTS

Record Keeping and Reporting Requirements [326 IAC 2-5.1-3(e)(2)] [326 IAC 2-6.1-5(a)(2)]

D.1.3 Record Keeping Requirements [40 CFR 60.110 Subpart K] [326 IAC 12]

D.1.4 Reporting Requirements

D.2 EMISSIONS UNIT OPERATION CONDITIONS: Combustion

Emission Limitations and Standards [326 IAC 2-6.1-5(1)]

D.2.1 Particulate (PM) [326 IAC 6-2-4]

Malfunction Report

Annual Notification

SECTION A SOURCE SUMMARY

This permit is based on information requested by the Indiana Department of Environmental Management (IDEM), Office of Air Quality (OAQ). The information describing the source contained in Conditions A.1 and A.2 are descriptive information and does not constitute enforceable conditions. However, the Permittee should be aware that a physical change or a change in the method of operation that may render this descriptive information obsolete or inaccurate may trigger requirements for the Permittee to obtain additional permits or seek modification of this permit pursuant to 326 IAC 2, or change other applicable requirements presented in the permit application.

A.1 General Information [326 IAC 2-5.1-3(c)] [326 IAC 2-6.1-4(a)]

The Permittee owns and operates a stationary petroleum storage and pipeline source.

Authorized Individual:	Senior Vice President, Administration, General Counsel and Secretary
Source Address:	4527 N. Meridian Road, Huntington, IN 46750
Mailing Address:	P.O. Box 368, Emmaus, PA 18049
General Source Phone:	484-232-4000
SIC Code:	4613
County Location:	Huntington
Source Location Status:	Attainment for all criteria pollutants
Source Status:	Minor Source Operating Permit Minor Source, under PSD Rules; Minor Source, Section 112 of the Clean Air Act

A.2 Emissions Units and Pollution Control Equipment Summary

This stationary source is approved to operate the following emissions units and pollution control devices:

(a) One (1) vertical fixed roof liquid storage tank, storing distillate, aviation fuel, and kerosene, identified as Tank 250, installed in 1957, capacity: 1,890,000 gallons.

(b) One (1) vertical fixed roof liquid storage tank, storing distillate, aviation fuel, and kerosene, identified as Tank 251, installed in 1957, capacity: 1,050,000 gallons.

(c) One (1) vertical internal floating roof liquid storage tank, storing gasoline, or distillate, identified as Tank 252, installed in 1971, capacity: 1,470,000 gallons.

(d) One (1) vertical fixed roof liquid storage tank, storing distillate, aviation fuel, and kerosene, identified as Tank 253, installed in 1957, capacity: 1,050,000 gallons.

(e) One (1) vertical internal floating roof liquid storage tank, storing gasoline, or distillate, identified as Tank 254, installed in 1974, capacity: 1,470,000 gallons.

(f) One (1) vertical fixed roof liquid storage tank, storing gasoline transmix, identified as Tank 260, installed in 1996, capacity: 21,000 gallons.

(g) One (1) horizontal sump tank, storing gasoline transmix, identified as Sump Tank, installed in 1955, capacity: 1,260 gallons.

(h) One (1) office building boiler, firing Liquified Petroleum Gas (LPG), identified as boiler 1, installed in 1997, rated at: 0.08 million British thermal units per hour.

(i) Two (2) sample building space heaters, installed in 1980, rated at 0.003 million British thermal units per hour, total.

SECTION B GENERAL CONDITIONS

THIS SECTION OF THE PERMIT IS BEING ISSUED UNDER THE PROVISIONS OF 326 IAC 2-1.1 AND 40 CFR 52.780, WITH CONDITIONS LISTED BELOW.

B.1 Permit No Defense [IC 13]

This permit to operate does not relieve the Permittee of the responsibility to comply with the provisions of the Indiana Environmental Management Law (IC 13-11 through 13-20; 13-22 through 13-25; and 13-30), the Air Pollution Control Law (IC 13-17) and the rules promulgated thereunder, as well as other applicable local, state, and federal requirements.

B.2 Definitions

Terms in this permit shall have the definition assigned to such terms in the referenced regulation. In the absence of definitions in the referenced regulation, the applicable definitions found in the statutes or regulations IC 13-11, 326 IAC 1-2, and 326 IAC 2-1.1-1 shall prevail.

B.3 Effective Date of the Permit [IC 13-15-5-3]

Pursuant to IC 13-15-5-3, this permit becomes effective upon its issuance.

B.4 Modification to Permit [326 IAC 2]

Notwithstanding the Section B condition entitled, “Minor Source Operating Permit”, all requirements and conditions of this operating permit shall remain in effect unless modified in a manner consistent with procedures established for modifications of operating permits pursuant to 326 IAC 2 (Permit Review Rules).

B.5 Minor Source Operating Permit [326 IAC 2-6.1]

(a) The operation permit will be subject to annual operating permit fees pursuant to 326 IAC 2-1.1-7(Fees).

(b) Pursuant to 326 IAC 2-6.1-7, the Permittee shall apply for an operation permit renewal at least ninety (90) days prior to the expiration date established in this permit. If IDEM, OAQ, upon receiving a timely and complete permit application, fails to issue or deny the permit renewal prior to the expiration date of this permit, this existing permit shall not expire and all terms and conditions shall continue in effect until the renewal permit has been issued or denied. The operation permit issued shall contain as a minimum the conditions in Section C and Section D of this permit.

B.6 Permit Term and Renewal [326 IAC 2-6.1-7(a)][326 IAC 2-1.1-9.5]

This permit is issued for a fixed term of five (5) years from the issuance date of this permit, as determined in accordance with IC 4-21.5-3-5(f) and IC 13-15-5-3. Subsequent revisions of this permit do not affect the expiration date.

The Permittee shall apply for an operation permit renewal at least ninety (90) days prior to the expiration date. If a timely and sufficient permit application for a renewal has been made, this permit shall not expire and all terms and conditions shall continue in effect until the renewal permit has been issued or denied.

B.7 Modification to Permit [326 IAC 2]

All requirements and conditions of this operating permit shall remain in effect unless modified in a manner consistent with procedures established for modifications of construction permits pursuant to 326 IAC 2 (Permit Review Rules).

B.8 Preventive Maintenance Plan [326 IAC 1-6-3]

(a) If required by specific condition(s) in Section D of this permit, the Permittee shall prepare and maintain Preventive Maintenance Plans (PMPs) within ninety (90) days but no more than ninety (90) days) after issuance of this permit, including the following information on each emissions unit:

(1) Identification of the individual(s) responsible for inspecting, maintaining, and repairing emission control devices;

(2) A description of the items or conditions that will be inspected and the inspection schedule for said items or conditions; and

(3) Identification and quantification of the replacement parts that will be maintained in inventory for quick replacement.

If, due to circumstances beyond the Permittee's control, the PMPs cannot be prepared and maintained within the above time frame, the Permittee may extend the date an additional ninety (90) days provided the Permittee notifies:

Indiana Department of Environmental Management
Compliance Branch, Office of Air Quality
100 North Senate Avenue, P. O. Box 6015
Indianapolis, Indiana 46206-6015

The PMP extension notification does not require the certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

(b) The Permittee shall implement the PMPs as necessary to ensure that failure to implement a PMP does not cause or contribute to a violation of any limitation on emissions or potential to emit.

(c) A copy of the PMPs shall be submitted to IDEM, OAQ, upon request and within a reasonable time, and shall be subject to review and approval by IDEM, OAQ. IDEM, OAQ, may require the Permittee to revise its PMPs whenever lack of proper maintenance causes or contributes to any violation. The PMP does not require the certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

(d) Records of preventive maintenance shall be retained for a period of at least five (5) years. These records shall be kept at the source location for a minimum of three (3) years. The records may be stored elsewhere for the remaining two (2) years as long as they are available upon request. If the Commissioner makes a request for records to the Permittee, the Permittee shall furnish the records to the Commissioner within a reasonable time.

B.9 Permit Revision [326 IAC 2-5.1-3(e)(3)] [326 IAC 2-6.1-6]

(a) Permit revisions are governed by the requirements of 326 IAC 2-6.1-6.

(b) Any application requesting an amendment or modification of this permit shall be submitted to:

Indiana Department of Environmental Management
Permits Branch, Office of Air Quality
100 North Senate Avenue, P.O. Box 6015
Indianapolis, Indiana 46206-6015

Any such application shall be certified by an "authorized individual" as defined by 326 IAC 2-1.1-1.

(c) The Permittee shall notify the OAQ within thirty (30) calendar days of implementing a notice-only change. [326 IAC 2-6.1-6(d)]

B.10 Annual Fee Payment [326 IAC 2-1.1-7]

(a) The Permittee shall pay annual fees to IDEM, OAQ within thirty (30) calendar days of receipt of a billing.

(b) The Permittee may call the following telephone numbers: 1-800-451-6027 or 317-233-4230 (ask for OAQ, I/M & Billing Section), to determine the appropriate permit fee.

SECTION C SOURCE OPERATION CONDITIONS

Entire Source

C.1 Particulate Emission Limitations For Processes with Process Weight Rates Less Than One Hundred (100) pounds per hour [40 CFR 52 Subpart P][326 IAC 6-3-2]

(a) Pursuant to 40 CFR 52 Subpart P, the allowable particulate matter emissions rate from any process not already regulated by 326 IAC 6-1 or any New Source Performance Standard, and which has a maximum process weight rate less than 100 pounds per hour shall not exceed 0.551 pounds per hour.

(b) Pursuant to 326 IAC 6-3-2(e)(2), the allowable particulate emissions rate from any process not exempt under 326 IAC 6-3-1(b) or (c) which has a maximum process weight rate less than 100 pounds per hour and the methods in 326 IAC 6-3-2(b) through (d) do not apply shall not exceed 0.551 pounds per hour.

C.2 Inspection and Entry [326 IAC 2-5.1-3(e)(4)(B)] [326 IAC 2-6.1-5(a)(4)]

Upon presentation of proper identification cards, credentials, and other documents as may be required by law, and subject to the Permittee's right under all applicable laws and regulations to assert that the information collected by the agency is confidential and entitled to be treated as such, the Permittee shall allow IDEM, OAQ, U.S. EPA, or an authorized representative to perform the following:

(a) Enter upon the Permittee's premises where a source is located, or emissions related activity is conducted, or where records must be kept under the conditions of this permit;

(b) Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit;

(c) Inspect, at reasonable times, any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit;

(d) Sample or monitor, at reasonable times, substances or parameters for the purpose of assuring compliance with this permit or applicable requirements; and

(e) Utilize any photographic, recording, testing, monitoring, or other equipment for the purpose of assuring compliance with this permit or applicable requirements.

C.3 Transfer of Ownership or Operation [326 IAC 2-6.1-6(d)(3)]

Pursuant to 326 IAC 2-6.1-6(d)(3):

(a) In the event that ownership of this source is changed, the Permittee shall notify IDEM, OAQ, Permits Branch, within thirty (30) days of the change.

(b) The written notification shall be sufficient to transfer the permit to the new owner by a notice-only change pursuant to 326 IAC 2-6.1-6(d)(3).

(c) IDEM, OAQ, shall issue a revised permit.

The notification which shall be submitted by the Permittee does require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1.

C.4 Permit Revocation [326 IAC 2-1.1-9]

Pursuant to 326 IAC 2-1.1-9 (Revocation of Permits), this permit to operate may be revoked for any of the following causes:

(a) Violation of any conditions of this permit.

(b) Failure to disclose all the relevant facts, or misrepresentation in obtaining this permit.

(c) Changes in regulatory requirements that mandate either a temporary or permanent reduction of discharge of contaminants. However, the amendment of appropriate sections of this permit shall not require revocation of this permit.

(d) Noncompliance with orders issued pursuant to 326 IAC 1-5 (Episode Alert Levels) to reduce emissions during an air pollution episode.

(e) For any cause which establishes in the judgment of IDEM, the fact that continuance of this permit is not consistent with purposes of this article.

C.5 Opacity [326 IAC 5-1]

Pursuant to 326 IAC 5-1-2 (Opacity Limitations), except as provided in 326 IAC 5-1-3 (Temporary Alternative Opacity Limitations), opacity shall meet the following, unless otherwise stated in this permit:

(a) Opacity shall not exceed an average of forty percent (40%) in any one (1) six (6) minute averaging period as determined in 326 IAC 5-1-4.

(b) Opacity shall not exceed sixty percent (60%) for more than a cumulative total of fifteen (15) minutes (sixty (60) readings) as measured according to 40 CFR 60, Appendix A, Method 9 or fifteen (15) one (1) minute nonoverlapping integrated averages for a continuous opacity monitor in a six (6) hour period.

C.6 Fugitive Dust Emissions [326 IAC 6-4]

The Permittee shall not allow fugitive dust to escape beyond the property line or boundaries of the property, right-of-way, or easement on which the source is located, in a manner that would violate 326 IAC 6-4 (Fugitive Dust Emissions).

C.7 Asbestos Abatement Projects [326 IAC 14-10] [326 IAC 18] [40 CFR 61, Subpart M]

(a) Notification requirements apply to each owner or operator. If the combined amount of regulated asbestos containing material (RACM) to be stripped, removed or disturbed is at least 260 linear feet on pipes or 160 square feet on other facility components, or at least thirty-five (35) cubic feet on all facility components, then the notification requirements of 326 IAC 14-10-3 are mandatory. All demolition projects require notification whether or not asbestos is present.

(b) The Permittee shall ensure that a written notification is sent on a form provided by the Commissioner at least ten (10) working days before asbestos stripping or removal work or before demolition begins, per 326 IAC 14-10-3, and shall update such notice as necessary, including, but not limited to the following:

(1) When the amount of affected asbestos containing material increases or decreases by at least twenty percent (20%); or

(2) If there is a change in the following:

(A) Asbestos removal or demolition start date;

(B) Removal or demolition contractor; or

(C) Waste disposal site.

(c) The Permittee shall ensure that the notice is postmarked or delivered according to the guidelines set forth in 326 IAC 14-10-3(2).

(d) The notice to be submitted shall include the information enumerated in 326 IAC 14-10-3(3).

All required notifications shall be submitted to:

Indiana Department of Environmental Management
Asbestos Section, Office of Air Quality
100 North Senate Avenue, P.O. Box 6015
Indianapolis, Indiana 46206-6015

The notice shall include a signed certification from the owner or operator that the information provided in this notification is correct and that only Indiana licensed workers and project supervisors will be used to implement the asbestos removal project. The notifications do not require a certification by an "authorized individual" as defined by 326 IAC 2-1.1-1.

(e) Procedures for Asbestos Emission Control
The Permittee shall comply with the applicable emission control procedures in 326 IAC 14-10-4 and 40 CFR 61.145(c). Per 326 IAC 14-10-1, emission control requirements are applicable for any removal or disturbance of RACM greater than three (3) linear feet on pipes or three (3) square feet on any other facility components or a total of at least 0.75 cubic feet on all facility components.

(f) Indiana Accredited Asbestos Inspector
The Permittee shall comply with 326 IAC 14-10-1(a) that requires the owner or operator, prior to a renovation/demolition, to use an Indiana Accredited Asbestos Inspector to thoroughly inspect the affected portion of the facility for the presence of asbestos. The requirement that the inspector be accredited, pursuant to the provisions of 40 CFR 61, Subpart M, is federally enforceable.

Testing Requirements

C.8 Performance Testing [326 IAC 3-6] [326 IAC 2-1.1-11]

(a) Compliance testing on new emissions units shall be conducted within sixty (60) days after achieving maximum production rate, but no later than one hundred eighty (180) days after initial start-up, if specified in Section D of this approval. All testing shall be performed according to the provisions of 326 IAC 3-6 (Source Sampling Procedures), except as provided elsewhere in this permit, utilizing any applicable procedures and analysis methods specified in 40 CFR 51, 40 CFR 60, 40 CFR 61, 40 CFR 63, 40 CFR 75, or other procedures approved by IDEM, OAQ.

A test protocol, except as provided elsewhere in this permit, shall be submitted to:

Indiana Department of Environmental Management
Compliance Data Section, Office of Air Quality
100 North Senate Avenue, P. O. Box 6015
Indianapolis, Indiana 46206-6015

no later than thirty-five (35) days prior to the intended test date.

(b) The Permittee shall notify the IDEM, OAQ, of the actual test date at least fourteen (14) days prior to the actual test date.

(c) Pursuant to 326 IAC 3-6-4(b), all test reports must be received by IDEM, OAQ, no later than forty-five (45) days after the completion of the testing. An extension may be granted by the IDEM, OAQ, if the source submits to IDEM, OAQ, a reasonable written explanation no later than five (5) days prior to the end of the initial forty-five (45) day period.

Compliance Requirements [326 IAC 2-1.1-11]

C.9 Compliance Requirements [326 IAC 2-1.1-11]

The commissioner may require stack testing, monitoring, or reporting at any time to assure compliance with all applicable requirements by issuing an order under 326 IAC 2-1.1-11. Any monitoring or testing shall be performed in accordance with 326 IAC 3 or other methods approved by the commissioner or the U.S. EPA.

Compliance Monitoring Requirements

C.10 Compliance Monitoring [326 IAC 2-1.1-11]

Compliance with applicable requirements shall be documented as required by this permit. The Permittee shall be responsible for installing any necessary equipment and initiating any required monitoring related to that equipment. All monitoring and record keeping requirements not already legally required shall be implemented when operation begins.

C.11 Monitoring Methods [326 IAC 3] [40 CFR 60] [40 CFR 63]

Any monitoring or testing required by Section D of this permit shall be performed according to the provisions of 326 IAC 3, 40 CFR 60, Appendix A, 40 CFR 60, Appendix B, 40 CFR 63, or other approved methods as specified in this permit.

C.12 Actions Related to Noncompliance Demonstrated by a Stack Test

(a) When the results of a stack test performed in conformance with Section C - Performance Testing, of this permit exceed the level specified in any condition of this permit, the Permittee shall take appropriate response actions. The Permittee shall submit a description of these response actions to IDEM, OAQ, within thirty (30) days of receipt of the test results. The Permittee shall take appropriate action to minimize excess emissions from the affected emissions unit while the response actions are being implemented.

(b) A retest to demonstrate compliance shall be performed within one hundred twenty (120) days of receipt of the original test results. Should the Permittee demonstrate to IDEM, OAQ that retesting in one-hundred and twenty (120) days is not practicable, IDEM, OAQ may extend the retesting deadline.

(c) IDEM, OAQ reserves the authority to take any actions allowed under law in response to noncompliant stack tests.

The documents submitted pursuant to this condition do require the certification by an “authorized individual” as defined by 326 IAC 2-1.1-1.

Record Keeping and Reporting Requirements

C.13 Malfunctions Report [326 IAC 1-6-2]

Pursuant to 326 IAC 1-6-2 (Records; Notice of Malfunction):

(a) A record of all malfunctions, including startups or shutdowns of any facility or emission control equipment, which result in violations of applicable air pollution control regulations or applicable emission limitations shall be kept and retained for a period of three (3) years and shall be made available to the Indiana Department of Environmental Management (IDEM), Office of Air Quality (OAQ) or appointed representative upon request.

(b) When a malfunction of any facility or emission control equipment occurs which lasts more than one (1) hour, said condition shall be reported to OAQ, using the Malfunction Report Forms (2 pages). Notification shall be made by telephone or facsimile, as soon as practicable, but in no event later than four (4) daytime business hours after the beginning of said occurrence.

(c) Failure to report a malfunction of any emission control equipment shall constitute a violation of 326 IAC 1-6, and any other applicable rules. Information of the scope and expected duration of the malfunction shall be provided, including the items specified in 326 IAC 1-6-2(a)(1) through (6).

(d) Malfunction is defined as any sudden, unavoidable failure of any air pollution control equipment, process, or combustion or process equipment to operate in a normal and usual manner. [326 IAC 1-2-39]

C.14 General Record Keeping Requirements [326 IAC 2-6.1-2-5]

(a) Records of all required data, reports and support information shall be retained for a period of at least five (5) years from the date of monitoring sample, measurement, report, or application. These records shall be kept at the source location for a minimum of three (3) years. The records may be stored elsewhere for the remaining two (2) years as long as they are available upon request. If the Commissioner makes a request for records to the Permittee, the Permittee shall furnish the records to the Commissioner within a reasonable time.

(b) Unless otherwise specified in this permit, all record keeping requirements not already legally required shall be implemented when operation begins.

C.15 General Reporting Requirements [326 IAC 2-1.1-11] [326 IAC 2-6.1-2] [IC 13-14-1-13]

(a) Reports required by conditions in Section D of this permit shall be submitted to:

Indiana Department of Environmental Management
Compliance Data Section, Office of Air Quality
100 North Senate Avenue, P. O. Box 6015
Indianapolis, Indiana 46206-6015

(b) Unless otherwise specified in this permit, any notice, report, or other submission required by this permit shall be considered timely if the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ, on or before the date it is due.

(c) Unless otherwise specified in this permit, any quarterly or semi-annual report required in Section D of this permit shall be submitted within thirty (30) days of the end of the reporting period. The reports do not require the certification by an “authorized individual” as defined by 326 IAC 2-1.1-1(1).

(d) The first report shall cover the period commencing on the date of issuance of this permit and ending on the last day of the reporting period. Reporting periods are based on calendar years.

C.16 Annual Notification [326 IAC 2-6.1-5(a)(5)]

(a) Annual notification shall be submitted to the Office of Air Quality stating whether or not the source is in operation and in compliance with the terms and conditions contained in this permit.

(b) Noncompliance with any condition must be specifically identified. If there are any permit conditions or requirements for which the source is not in compliance at any time during the year, the Permittee must provide a narrative description of how the source did or will achieve compliance and the date compliance was, or will be, achieved. The notification must be signed by an authorized individual.

(c) The annual notice shall cover the time period from January 1 to December 31 of the previous year, and shall be submitted in the format attached no later than March 1 of each year to:

Compliance Branch, Office of Air Quality
Indiana Department of Environmental Management
100 North Senate Avenue, P.O. Box 6015
Indianapolis, IN 46206-6015

(d) The notification shall be considered timely if the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ, on or before the date it is due.

SECTION D.1 EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description:

(a) One (1) vertical fixed roof liquid storage tank, storing distillate, aviation fuel, and kerosene, identified as Tank 250, installed in 1957, capacity: 1,890,000 gallons.

(b) One (1) vertical fixed roof liquid storage tank, storing distillate, aviation fuel, and kerosene, identified as Tank 251, installed in 1957, capacity: 1,050,000 gallons.

(c) One (1) vertical internal floating roof liquid storage tank, storing gasoline, or distillate, identified as Tank 252, installed in 1971, capacity: 1,470,000 gallons.

(d) One (1) vertical fixed roof liquid storage tank, storing distillate, aviation fuel, and kerosene, identified as Tank 253, installed in 1957, capacity: 1,050,000 gallons.

(e) One (1) vertical internal floating roof liquid storage tank, storing gasoline, or distillate, identified as Tank 254, installed in 1974, capacity: 1,470,000 gallons.

(f) One (1) vertical fixed roof liquid storage tank, storing gasoline transmix, identified as Tank 260, installed in 1996, capacity: 21,000 gallons.

(g) One (1) horizontal sump tank, storing gasoline transmix, identified as Sump Tank, installed in 1955, capacity: 1,260 gallons.

(The information describing the process contained in this emissions unit description box is descriptive information and does not constitute enforceable conditions.)

Emission Limitations and Standards [326 IAC 2-6.1-5(1)]

D.1.1 General Provisions Relating to NSPS [326 IAC 12-1] [40 CFR 60, Subpart A]

The provisions of 40 CFR 60 Subpart A - General Provisions, which are incorporated as 326 IAC 12-1, apply to the facility described in this section except when otherwise specified in 40 CFR Part 60 Subparts K and Kb.

D.1.2 Standard for Volatile Organic Compounds (VOCs) [40 CFR 60.112, Subpart K] [326 IAC 12]

(a) For the one (1) vertical internal floating roof liquid storage tank, storing gasoline, or distillate, identified as Tank 254, which stores petroleum liquid with a true vapor pressure equal to or greater than 78 mm Hg (1.5 psia) but not greater than 570 mm Hg (11.1 psia) the storage vessel shall be equipped with a floating roof, a vapor recovery system, or their equivalents.

(b) Any change or modification which would increase the true vapor pressure of the petroleum liquid as stored to greater than 570 mm Hg (11.1 psia), shall obtain prior approval from IDEM, OAQ.

.

Compliance Determination Requirements [326 IAC 2-1.1-11]

There are no specific Compliance Determination Requirements applicable to these emission units.

Compliance Monitoring Requirements [326 IAC 2-5.1-3(e)(2)] [326 IAC 2-6.1-5(a)(2)]

There are no specific Compliance Monitoring Requirements applicable to these emission units.

Record Keeping and Reporting Requirements [326 IAC 2-5.1-3(e)(2)] [326 IAC 2-6.1-5(a)(2)]

D.1.3 Record Keeping Requirements [40 CFR 60.110 Subpart K] [326 IAC 12]

Pursuant to 40 CFR 60.113 subpart K, for the one (1) vertical internal floating roof liquid storage tank, storing gasoline, or distillate, identified as Tank 254, the owner or operator subject to this subpart shall maintain a record of the petroleum liquid stored, the period of storage and the maximum true vapor pressure of that liquid during the respective storage period.

D.1.4 Record Keeping [326 IAC 12] [40 CFR 60.110b, Subpart Kb]

The (1) vertical fixed roof liquid storage tank, storing gasoline transmix, identified as Tank 260, installed in 1996, with a capacity of 21,000 gallons, shall comply with the New Source Performance Standard, 326 IAC 12, (40 CFR Part 60.110b, Subpart Kb). This tank is subject to only 40 CFR Part 60.116b, paragraphs (a) and (b) which requires the Permittee to maintain accessible records showing the dimensions of the storage vessel and an analysis showing the capacity of the storage vessel. Records shall be kept for the life of the storage tanks.

SECTION D.2 EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description:

(h) One (1) office building boiler, firing Liquified Petroleum Gas (LPG), identified as boiler 1, installed in 1997, rated at: 0.08 million British thermal units per hour.

(i) Two (2) sample building space heaters, installed in 1980, rated at 0.003 million British thermal units per hour, total.

(The information describing the process contained in this emissions unit description box is descriptive information and does not constitute enforceable conditions.)

Emission Limitations and Standards [326 IAC 2-6.1-5(1)]

D.2.1 Particulate (PM) [326 IAC 6-2-4]

Pursuant to 326 IAC 6-2-4(a) (Particulate Emissions Limitations for Facilities Constructed after September 21, 1983) the particulate emissions from the one (1) office building boiler, rated at 0.08 million British thermal units per hour, shall be limited to 0.6 pound per million British thermal units heat input.

Compliance Determination Requirements [326 IAC 2-1.1-11]

There are no specific Compliance Determination Requirements applicable to these emission units.

Compliance Monitoring Requirements [326 IAC 2-5.1-3(e)(2)] [326 IAC 2-6.1-5(a)(2)]

There are no specific Compliance Monitoring Requirements applicable to these emission units.

MALFUNCTION REPORT

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
FAX NUMBER - 317 233-5967

This form should only be used to report malfunctions applicable to Rule 326 IAC 1-6 and to qualify for the exemption under 326 IAC 1-6-4.

THIS FACILITY MEETS THE APPLICABILITY REQUIREMENTS BECAUSE IT HAS POTENTIAL TO EMIT 25 TONS/YEAR PARTICULATE MATTER ?_____, 25 TONS/YEAR SULFUR DIOXIDE ?_____, 25 TONS/YEAR NITROGEN OXIDES ?_____, 25 TONS/YEAR VOC ?_____, 25 TONS/YEAR HYDROGEN SULFIDE ?_____, 25 TONS/YEAR TOTAL REDUCED SULFUR ?_____, 25 TONS/YEAR REDUCED SULFUR COMPOUNDS ?_____, 25 TONS/YEAR FLUORIDES ?_____, 100 TONS/YEAR CARBON MONOXIDE ?_____, 10 TONS/YEAR ANY SINGLE HAZARDOUS AIR POLLUTANT ?_____, 25 TONS/YEAR ANY COMBINATION HAZARDOUS AIR POLLUTANT ?_____, 1 TON/YEAR LEAD OR LEAD COMPOUNDS MEASURED AS ELEMENTAL LEAD ?_____, OR IS A SOURCE LISTED UNDER 326 IAC 2-5.1-3(2) ?_____. EMISSIONS FROM MALFUNCTIONING CONTROL EQUIPMENT OR PROCESS EQUIPMENT CAUSED EMISSIONS IN EXCESS OF APPLICABLE LIMITATION _____.

THIS MALFUNCTION RESULTED IN A VIOLATION OF: 326 IAC _____ OR, PERMIT CONDITION # _____ AND/OR PERMIT LIMIT OF _____

THIS INCIDENT MEETS THE DEFINITION OF 'MALFUNCTION' AS LISTED ON REVERSE SIDE ? Y N

THIS MALFUNCTION IS OR WILL BE LONGER THAN THE ONE (1) HOUR REPORTING REQUIREMENT ? Y N

COMPANY: _____ PHONE NO. :_____
LOCATION: (CITY AND COUNTY) _____
PERMIT NO. _____ AFS PLANT ID: _____ AFS POINT ID: _____ INSP: _____
CONTROL/PROCESS DEVICE WHICH MALFUNCTIONED AND REASON: _____

DATE/TIME MALFUNCTION STARTED: _____/_____/ 20_____ _____ AM / PM

ESTIMATED HOURS OF OPERATION WITH MALFUNCTION CONDITION: _____

DATE/TIME CONTROL EQUIPMENT BACK-IN SERVICE_____/_____/ 20____ _____ AM / PM

TYPE OF POLLUTANTS EMITTED: TSP, PM-10, SO2, VOC, OTHER: _____

ESTIMATED AMOUNT OF POLLUTANT EMITTED DURING MALFUNCTION: _____

MEASURES TAKEN TO MINIMIZE EMISSIONS: _____

REASONS WHY FACILITY CANNOT BE SHUTDOWN DURING REPAIRS:

CONTINUED OPERATION REQUIRED TO PROVIDE ESSENTIAL* SERVICES: _____
CONTINUED OPERATION NECESSARY TO PREVENT INJURY TO PERSONS: _____
CONTINUED OPERATION NECESSARY TO PREVENT SEVERE DAMAGE TO EQUIPMENT: _____
INTERIM CONTROL MEASURES: (IF APPLICABLE) _____

MALFUNCTION REPORTED BY: _____ TITLE: _____
(SIGNATURE IF FAXED)

MALFUNCTION RECORDED BY: _____ DATE: _____ TIME: _____

*SEE PAGE 2

Please note - This form should only be used to report malfunctions applicable to Rule 326 IAC 1-6 and to qualify for the exemption under 326 IAC 1-6-4.

326 IAC 1-6-1 Applicability of rule

Sec. 1. This rule applies to the owner or operator of any facility required to obtain a permit under 326 IAC 2-5.1 or 326 IAC 2-6.1.

326 IAC 1-2-39 "Malfunction" definition

Sec. 39. Any sudden, unavoidable failure of any air pollution control equipment, process, or combustion or process equipment to operate in a normal and usual manner.

*** Essential services** are interpreted to mean those operations, such as, the providing of electricity by power plants. Continued operation solely for the economic benefit of the owner or operator shall not be sufficient reason why a facility cannot be shutdown during a control equipment shutdown.

If this item is checked on the front, please explain rationale:

_____

_____

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE BRANCH

MINOR SOURCE OPERATING PERMIT
ANNUAL NOTIFICATION

This form should be used to comply with the notification requirements under 326 IAC 2-6.1-5(a)(5).

Company Name:	**Buckeye Pipe Line Company, L.P.**
Address:	**4527 N. Meridian Road**
City:	**Huntington, Indiana 46750**
Phone #:	**484-232-4000**
MSOP #:	**069-14426-00003**

I hereby certify that Buckeye Pipe Line Company, L.P. is

9 still in operation.
9 no longer in operation.

I hereby certify that Buckeye Pipe Line Company, L.P. is

9 in compliance with the requirements of MSOP **069-14426-00003**.
9 not in compliance with the requirements of MSOP **069-14426-00003**.

Authorized Individual (typed):
Title:
Signature:
Date:

If there are any conditions or requirements for which the source is not in compliance, provide a narrative description of how the source did or will achieve compliance and the date compliance was, or will be achieved.

Noncompliance:

Indiana Department of Environmental Management
Office of Air Quality

Technical Support Document (TSD) for a Minor Source Operating Permit

Source Background and Description

Source Name:	**Buckeye Pipe Line Company, L.P.**
Source Location:	**4527 N. Meridian Road, Huntington, IN 46750**
County:	**Huntington**
SIC Code:	**4613**
Operation Permit No.:	**MSOP 069-14426-00003**
Permit Reviewer:	**Craig J. Friederich**

The Office of Air Quality (OAQ) has reviewed an application from Buckeye Pipe Line Company, L.P. relating to the operation of a petroleum storage and pipeline source.

Permitted Emission Units and Pollution Control Equipment

The source consists of the following permitted emission units and pollution control devices:

(a) One (1) vertical fixed roof liquid storage tank, storing distillate, aviation fuel, and kerosene, identified as Tank 250, installed in 1957, capacity: 1,890,000 gallons.

(b) One (1) vertical fixed roof liquid storage tank, storing distillate, aviation fuel, and kerosene, identified as Tank 251, installed in 1957, capacity: 1,050,000 gallons.

(c) One (1) vertical internal floating roof liquid storage tank, storing gasoline, or distillate, identified as Tank 252, installed in 1971, capacity: 1,470,000 gallons.

(d) One (1) vertical fixed roof liquid storage tank, storing distillate, aviation fuel, and kerosene, identified as Tank 253, installed in 1957, capacity: 1,050,000 gallons.

(e) One (1) vertical internal floating roof liquid storage tank, storing gasoline, or distillate, identified as Tank 254, installed in 1974, capacity: 1,470,000 gallons.

Unpermitted Emission Units and Pollution Control Equipment

The source also consists of the following unpermitted facilities/units:

(f) One (1) vertical fixed roof liquid storage tank, storing gasoline transmix, identified as Tank 260, installed in 1996, capacity: 21,000 gallons.

(g) One (1) horizontal sump tank, storing gasoline transmix, identified as Sump Tank, installed in 1955, capacity: 1,260 gallons.

(h) One (1) office building boiler, firing Liquified Petroleum Gas (LPG), identified as boiler 1, installed in 1997, rated at: 0.08 million British thermal units per hour.

(i) Two (2) sample building space heaters, installed in 1980, rated at 0.003 million British thermal units per hour, total.

New Emission Units and Pollution Control Equipment

There are no new facilities proposed at this source during this review process.

Existing Approvals

The source has been operating under the following previous approvals including:

(a) OP 35-07-87-0127, issued on August 22, 1983; and

(b) Permit transfer from Buckeye Pipeline Company to Buckeye Pipeline Company, L.P., issued on March 4, 1987.

All terms and conditions from previous approvals issued pursuant to the permitting programs approved into the State Implementation Plan have been either incorporated as originally stated, revised, or deleted by this permit. All previous approvals are superseded by this permit.

Stack Summary

Stack ID	Operation	Height (feet)	Diameter (feet)	Flow Rate (acfm)	Temperature (EF)
250	Tank 250	40	n/a	n/a	Ambient
251	Tank 251	40	n/a	n/a	Ambient
252	Tank 252	42.5	n/a	n/a	Ambient
253	Tank 253	40	n/a	n/a	Ambient
254	Tank 254	40	n/a	n/a	Ambient
260	Tank 260	16	n/a	n/a	Ambient
Sump Tank	Sump Tank	1	n/a	n/a	Ambient
LPG Vent	Vent Stack (LPG Sampling)	9	n/a	n/a	Ambient

Enforcement Issue

The source should have submitted an application for an MSOP by December 25, 1999. Therefore, an enforcement referral will be filed.

Recommendation

The staff recommends to the Commissioner that the operation be approved. This recommendation is based on the following facts and conditions:

Unless otherwise stated, information used in this review was derived from the application and additional information submitted by the applicant.

An application for the purposes of this review was received on May 22, 2001, with additional information received on November 8, 2002.

Emission Calculations

The calculations submitted by the applicant have been verified and found to be accurate and correct. See pages 1 and 2 of 2 of Appendix A for detailed combustion calculations.

Potential To Emit

Pursuant to 326 IAC 2-1.1-1(16), Potential to Emit is defined as "the maximum capacity of a stationary source or emissions unit to emit any air pollutant under its physical and operational design. Any physical or operational limitation on the capacity of a source to emit an air pollutant, including air pollution control equipment and restrictions on hours of operation or type or amount of material combusted, stored, or processed shall be treated as part of its design if the limitation is enforceable by the U. S. EPA, the department, or the appropriate local air pollution control agency."

Pollutant	**Potential To Emit** (tons/year)
PM	0.002
PM_{10}	0.002
SO_2	negligible
VOC	40.0
CO	0.007
NO_X	0.052

HAPs	**Potential To Emit** (tons/year)
2,2,4-TMP	0.338
Benzene	0.275
Biphenyl	negligible
Cresol	negligible
Cumene	0.010
Ethylbenzene	0.046
Hexane	2.15
MTBE	1.25
Naphthalene	negligible
Phenol	negligible
Styrene	0.031
Toluene	0.454

HAPs	Potential To Emit (tons/year)
Xylenes	0.160
TOTAL	4.71

(a) The potential to emit (as defined in 326 IAC 2-1.1-1(16)) of Volatile Organic Compounds (VOC) is equal to or greater than twenty-five (25) tons per year. Therefore, the source is subject to the provisions of 326 IAC 2-6.1.

(b) Fugitive Emissions
Since this type of operation is not one of the twenty-eight (28) listed source categories under 326 IAC 2-2 and since there are no applicable New Source Performance Standards that were in effect on August 7, 1980, the fugitive particulate matter (PM) and volatile organic compound (VOC) emissions are not counted toward determination of PSD and Emission Offset applicability.

Actual Emissions

No previous emission data has been received from the source.

Limited Potential to Emit

The table below summarizes the total potential to emit, reflecting all limits, of the significant emission units.

	Limited Potential to Emit (tons/year)						
Process/facility	PM	PM_{10}	SO_2	VOC	CO	NO_X	HAPs
Storage Tanks, Including Roof Landing Emissions	--	--	--	36.7	--	--	4.65
Fugitive Emissions(Valves, Pumps, Flanges, Sump Tank and LPG Sampling)	--	--	--	3.36	--	--	0.07
Combustion	0.002	0.002	negligible	negligible	0.007	0.052	--
Total Emissions	0.002	0.002	negligible	40.0	0.007	0.052	4.72

Note: The tank emissions and the fugitive emissions were calculated using the TANKS 4.0 program. The roof landing emissions for the two (2) internal floating roof tanks, were calculated from the American Petroleum Institute "Determining Product Evaporation Losses from Tank Turnovers" final draft report, 1997.

County Attainment Status

The source is located in Huntington County.

Pollutant	Status
PM_{10}	attainment
SO_2	attainment
NO_2	attainment
Ozone	attainment
CO	attainment
Lead	attainment

(a) Volatile organic compounds (VOC) are precursors for the formation of ozone. Therefore, VOC emissions are considered when evaluating the rule applicability relating to the ozone standards. Huntington County has been designated as attainment or unclassifiable for ozone. Therefore, VOC emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2 and 40 CFR 52.21.

(b) Huntington County has been classified as attainment or unclassifiable for all remaining criteria pollutants. Therefore, these emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2 and 40 CFR 52.21.

(c) Fugitive Emissions
Since this type of operation is not one of the 28 listed source categories under 326 IAC 2-2, 40 CFR 52.21, or 326 IAC 2-3 and since there are no applicable New Source Performance Standards that were in effect on August 7, 1980, the fugitive particulate matter (PM) and volatile organic compound (VOC) emissions are not counted toward determination of PSD and Emission Offset applicability.

Part 70 Permit Determination

326 IAC 2-7 (Part 70 Permit Program)

This existing source, including the emissions from this permit MSOP 069-14426-00003, is still not subject to the Part 70 Permit requirements because the potential to emit (PTE) of:

(a) each criteria pollutant is less than one hundred (100) tons per year,

(b) a single hazardous air pollutant (HAP) is less than ten (10) tons per year, and

(c) any combination of HAPs is less than twenty-five (25) tons per year.

This status is based on all the air approvals issued to the source. This status has been verified by the OAQ inspector assigned to the source.

Federal Rule Applicability

(a) The four (4) liquid storage tanks, identified as Tanks 250, 251, 252, and 253, with Tanks 250, 251 and 253 installed in 1957, and Tank 252 installed in 1971, and the one (1) sump tank, installed in 1955, predate the Subpart K, Ka, and Kb applicability dates. Therefore, these tanks are not subject to the requirements of these subparts.

(b) The one (1) gasoline or distillate liquid storage tank, identified as Tank 254, installed in

1974, is subject to the requirements of New Source Performance Standard, 326 IAC 12, (40 CFR Part 60.110 - 113, Subpart K) because it was constructed between the rule applicability dates of June 11, 1973 and May 19, 1978 and it's storage capacity is greater than 40,000 gallons.

Pursuant to this rule, the owner or operator shall store petroleum liquids meeting the specifications in 40 CFR 60.112(a)(1) or (a)(2). Pursuant to 40 CFR 60.110, the owner or operator shall keep records of the petroleum liquid stored, the period of storage and the maximum true vapor pressure of that liquid during the respective storage period.

(c) The one (1) liquid storage tank, storing gasoline transmix, identified as Tank 260, installed in 1996 is subject to 40 CFR Part 60, Subpart Kb because the maximum capacity of this tank is greater than forty (40) cubic meters and it was constructed after July 23, 1984. Since the material stored in this tank has a maximum true vapor pressure less than fifteen (15) kiloPascals, this tank is only subject to 40 CFR Part 60.116b, paragraphs (a) and (b), which require record keeping.

(1) Pursuant to this rule, the owner or operator of this tank shall keep copies of all records required by this section, except for the records required by paragraph (2), for at least two (2) years. The records required by paragraph (2) of this section shall be kept for the life of the source.

(2) The owner or operator of this tank as specified in 40 CFR 110b(a) shall keep readily accessible records showing the dimension of the storage vessel and analysis showing the capacity of the storage vessel.

(d) This source is not subject to the New Source Performance Standards (326 IAC 12) (40 CFR 60.500 through 60.506, Subpart XX, Standards of Performance for Bulk Gasoline Terminals) because there are no truck loading racks at this source.

(e) The one (1) office building boiler, identified as boiler 1, is not subject to the requirements of the New Source Performance Standard, 326 IAC 12, (40 CFR 60.40, Subpart Dc, because the capacity is less that ten (10) million British thermal units per hour.

(f) There are no National Emission Standards for Hazardous Air Pollutants (NESHAPs) (326 IAC 14, 326 IAC 20, 40 CFR 61 and 40 CFR Part 63) applicable to this source.

State Rule Applicability - Entire Source

326 IAC 2-2 (Prevention of Significant Deterioration (PSD))

This source was constructed before the rule applicability date of August 7, 1977. All tanks were constructed prior to the rule applicability date except tank 260, which does not by itself have the potential to emit any criteria pollutants greater than two-hundred fifty (250) tons per year. This source is not one of the 28 listed source categories. Therefore, the requirements of 326 IAC 2-2 are not applicable.

326 IAC 2-4.1-1 (New Source Toxics Control)

There were no facilities that were constructed or modified after the rule applicability date of July 27, 1997 located at this source, and the potential to emit each individual hazardous air pollutant (HAP) is less than ten (10) tons per year and the potential to emit total HAPS is less than a total of twenty-five (25) tons per year, total. Therefore, the requirements of 326 IAC 2-4.1-1 (New Source Toxics

Control) are not applicable.

326 IAC 2-6 (Emission Reporting)

This source is located in Huntington County and the potential to emit all criteria pollutants is less than one hundred (100) tons per year, therefore, 326 IAC 2-6 does not apply.

326 IAC 5-1 (Opacity Limitations)

Pursuant to 326 IAC 5-1-2 (Opacity Limitations), except as provided in 326 IAC 5-1-3 (Temporary alternative opacity limitations), opacity shall meet the following, unless otherwise stated in this permit:

(a) Opacity shall not exceed an average of forty percent (40%) any one (1) six (6) minute averaging period as determined in 326 IAC 5-1-4.

(b) Opacity shall not exceed sixty percent (60%) for more than a cumulative total of fifteen (15) minutes (sixty (60) readings as measured according to 40 CFR 60, Appendix A, Method 9 or fifteen (15) one (1) minute nonoverlapping integrated averages for a continuous opacity monitor) in a six (6) hour period.

State Rule Applicability - Individual Facilities

326 IAC 6-2-4 (Particulate Emission Limitations for Sources of Indirect Heating)

The office building boiler, firing Liquified Petroleum Gas (LPG), constructed in 1997, rated at 0.08 million British thermal units per hour, must comply with the requirements of 326 IAC 6-2-4.

The total heat input capacity for the source, including the 0.08 million British thermal units per hour boiler, is 0.08 million British thermal units per hour.

$Pt = 1.09/(0.08)^{0.26} = 2.10$ lb/mmBtu heat input

Pursuant to 326 IAC 6-2-4 (a), PM emissions shall in no case exceed 0.6 pound per million British thermal units heat input.

Based on page 1 of Appendix A, the potential PM emission rate is:

0.002 ton/yr × (2000 lbs/ton / 8760 hrs/yr) = 0.0005 lb/hr
(0.0005 lb/hr / 0.08 mmBtu/hr) = 0.006 lb PM per mmBtu

Therefore, the one (1) office building boiler identified as B-1, constructed in 1997, will comply with this rule.

326 IAC 8-4-3 (Petroleum Liquid Storage Facilities)

(a) The five (5) liquid storage tanks, identified as Tanks 250, 251, 252, 253, and 254, and the one (1) sump tank are not subject to the requirements of 326 IAC 8-4-3 because each was constructed prior to the rule applicability date of January 1, 1980.

(b) The one (1) vertical fixed roof liquid storage tank, storing gasoline transmix, identified as Tank 260, installed in 1996 is not subject to the requirements of 326 IAC 8-4-3, because this tank has a storage capacity of less than 39,000 gallons.

326 IAC 8-6 (Organic solvent emission limitations)

This source commenced operation before the rule applicability date of October 7, 1974, and has the potential to emit VOC less than one-hundred (100) tons per year, therefore, the requirements of 326 IAC 8-6 (Organic solvent emission limitations) are not applicable.

326 IAC 8-9 (Volatile Organic Liquid Storage Vessels)

This source commenced operation before October 1, 1995, and is not located in Clark, Floyd, Lake, or Porter Counties. Therefore, the requirements of 326 IAC 8-9 (Volatile Organic Liquid Storage Vessels) are not applicable.

Conclusion

The operation of this petroleum storage and pipeline source shall be subject to the conditions of the attached proposed Minor Source Operating Permit 069-14426-00003.

Appendix A: Emission Calculations
LPG-Propane -Commercial Boilers

Company Name: Buckeye Pipe Line Company, L.P.
Address City IN Zip: 4527 N. Meridian Road, Huntington, IN 46750
MSOP: 069-14426
Plt ID: 069-00003
Reviewer: Craig J. Friederich
Date: May 22, 2001

Heat Input Capacity MMBtu/hr	Potential Throughput kgals/year	SO2 Emission factor = 0.10 x S S = Sulfur Content =	0.10
0.08	7.66		

	Pollutant					
	PM*	PM10*	SO2	NOx	VOC	CO
Emission Factor in lb/kgal	0.4	0.4	0.010 *(0.10S)*	14.0	0.5 **TOC value	1.9
Potential Emission in tons/yr	0.002	0.002	0.00004	0.05	0.002	0.007

*PM emission factor is filterable PM only. PM10 emission factor is assumed to be the same as PM based on a footnote in Table 1.5-1, therefore PM10 is filterable only as well.
**The VOC value given is TOC. The methane emission factor is 0.2 lb/kgal.

Methodology

1 gallon of LPG has a heating value of 94,000 Btu
1 gallon of propane has a heating value of 91,500 Btu (use this to convert emission factors to an energy basis for propane)
(Source - AP-42 (Supplement B 10/96) page 1.5-1)
Potential Throughput (kgals/year) = Heat Input Capacity (MMBtu/hr) x 8,760 hrs/yr x 1kgal per 1000 gallon x 1 gal per 0.0915 MMBtu

Emission Factors are from AP42 (Supplement B 10/96), Table 1.5-1 (SCC #1-02-010-02)

Emission (tons/yr) = Throughput (kgals/yr) x Emission Factor (lb/kgal) / 2,000 lb/ton
Note: Check the applicable rules and test methods for PM and PM10 when using the above emission factors to confirm that the correct factor is used (i.e., condensable included/not included).

Appendix A: Emission Calculations
LPG-Propane -Commercial Boilers

Company Name: Buckeye Pipe Line Company, L.P.
Address City IN Zip: 4527 N. Meridian Road, Huntington, IN 46750
MSOP: 069-14426
Plt ID: 069-00003
Reviewer: Craig J. Friederich
Date: May 22, 2001

Two (2) Space Heaters

Heat Input Capacity MMBtu/hr	Potential Throughput kgals/year	SO2 Emission factor = 0.10 x S S = Sulfur Content = 0.10
0.003	0.29	

	Pollutant					
	PM*	PM10*	SO2	NOx	VOC	CO
Emission Factor in lb/kgal	0.4	0.4	0.010 *(0.10S)*	14.0	0.5 **TOC value	1.9
Potential Emission in tons/yr	0.0001	0.0001	0.000001	0.002	0.0001	0.0003

*PM emission factor is filterable PM only. PM10 emission factor is assumed to be the same as PM based on a footnote in Table 1.5-1, therefore PM10 is filterable only as well.
**The VOC value given is TOC. The methane emission factor is 0.2 lb/kgal.

Methodology

1 gallon of LPG has a heating value of 94,000 Btu
1 gallon of propane has a heating value of 91,500 Btu (use this to convert emission factors to an energy basis for propane)
(Source - AP-42 (Supplement B 10/96) page 1.5-1)
Potential Throughput (kgals/year) = Heat Input Capacity (MMBtu/hr) x 8,760 hrs/yr x 1kgal per 1000 gallon x 1 gal per 0.0915 MMBtu

Emission Factors are from AP42 (Supplement B 10/96), Table 1.5-1 (SCC #1-02-010-02)

Emission (tons/yr) = Throughput (kgals/yr) x Emission Factor (lb/kgal) / 2,000 lb/ton
Note: Check the applicable rules and test methods for PM and PM10 when using the above emission factors to confirm that the correct factor is used (i.e., condensable included/not included).